

Sensor reflector

para tareas de medición

LASER

CP08MHT80

Número de pedido



- Alta resolución 8µm (Modo-resolucion)
- Función del zoom
- Linearidad 0,1% (modo-resolucion)
- Tiempo de reacción <660µs (modo de velocidad)

Datos técnicos

Datos ópticos	
Rango de trabajo	30...80 mm
Rango de medición	50 mm
Resolución	< 8 µm
Resolución (Speed-Mode)	< 12 µm
Linearidad	0.1 %
Linearidad (Speed-Mode)	0.2 %
Fuente de luz	Láser (rojo)
Longitud de onda	660 nm
Tiempo de vida (Tu = +25°C)	100000 h
Clase de protección láser (EN 60825-1)	2
Luz máxima de ambiente	10000 Lux
Datos eléctricos	
Suministro de voltage	18...30 V DC
Consumo de corriente (Ub = 24V)	< 80 mA
Ratio de medida	1500 /s
Tiempo de reacción	< 660 µs
Tiempo de reacción (Modo-resolucion)	< 1660 µs
Temperatura de desvío	< 5 µm/K
Rango de temperatura	-25...50 °C
Salida analógica	0...10 V
Carga de la salida de tensión	< 1 mA
Salida analógica	4...20 mA
Resistencia de carga de salida	< 500 Ohm
Interfaz	RS-232
Rango propagación	38400 Bd
Datos mecánicos	
Ajustes	Teach-In
Carcasa	Plástico
Modo protección	IP 67
Conexión	M12 x 1
Insulación protectora, Tasa de voltage	50 V

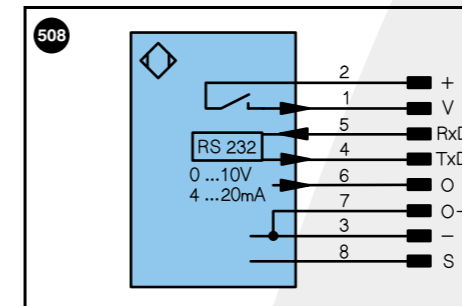
Versión de enchufe

Número de pedido	CP08MHT80
Salida de error	●
Salida analógica	●
RS-232 Interface	●
Esquema de conexión N°	508
Número de panel de control	P 7
N° conector adecuado	80

Tabla 1

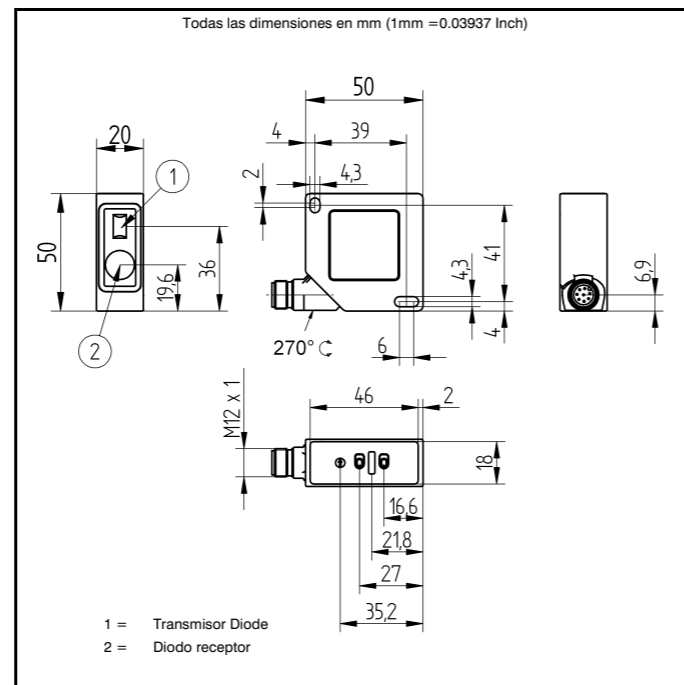
Distancia de trabajo	30 mm	80 mm
Tamaño del punto de luz	0.5 x 1 mm	1 x 2 mm

gm GUEMISA (Electrónica Guerra y Miró Guemisa S.L.)
 Sta. Virgilia, 29 - local - 28033 Madrid (Spain)
 Tlfno.: (034) 91 764 21 00 Fax.: (034) 91 764 21 32
 Email.: ventas@guemisa.com Web.: www.guemisa.com



Aclaración de símbolos		Color de los conductores según DIN IEC 757			
+	Tensión de alimentación "+"	U	Entrada de comprobación	BK	negro
-	Tensión de alimentación "0V"	W	Entrada activadora	BN	marón
-	Tensión de alimentación (tensión alterna)	O	Salida analógica (1, 2, 3...)	RD	rojo
A	Salida de conmutación (1, 2, 3...) / contacto de trabajo(NC)	O-	"Masa de referencia" salida analógica	OG	naranja
A	Salida de conmutación (1, 2, 3...) / contacto de reposo(NC)	BZ	Salida en bloque	YE	amarillo
V	Salida contaminación/error (NO)	AW	Salida electroválvula / motor	GN	verde
V	Salida contaminación/error (NC)	a	Salida control de válvula "+"	BU	azul
E	Entrada (analógica o digital)	b	Salida control de válvula "0V"	VT	violeta
T	Entrada de aprendizaje	SY	Sincronización	GY	gris
Z	Retardo temporal (activación)	E+	Conductor del receptor	WH	rosa
S	Aparcamiento	E+	Conductor del emisor	PK	blanco
RxD	RS-232 conductor del receptor	+	Puesta a tierra	GNYE	verde/amarillo
TxD	RS-232 conductor del emisor	S+R	Reducción distancia de conmutación		
RDY	Listo	USB+	Datos USB +		
GND	Masa	USB-	Datos USB -		
CL	Ritmo	Ba	Interfaces-Bus A(+)/B(-)		
		La	Luz emitida desconectable		

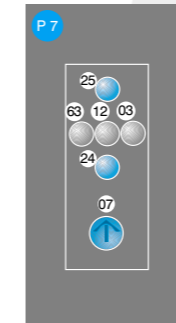
El sensor utiliza una línea de selección de alta resolución CMOS-CRLF- y tecnología DSP, eliminando virtualmente la materia, -CRLF-el color y el brillo relacionaron el valor de la medida-CRLF-diferencias. La gama de medida esta calibrada exactamente a 10 µm.-CRLF-La salida analógica integrada se puede configurar:-CRLF-para voltages 0...10 V (10...0 V) o actual 4...20 mA (20...4mA)



Accesorios

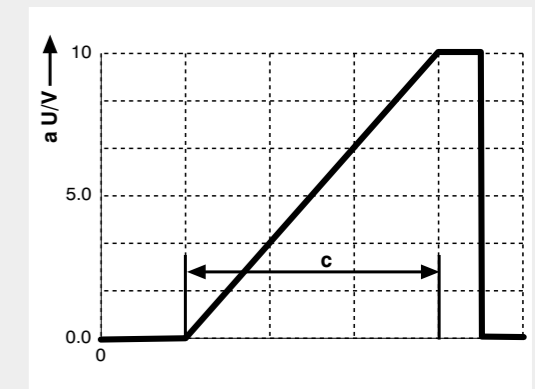
- Unidad de evaluación analógica AW02
- Ángulos de montaje WP
- Adaptador interfaz S232W3

Panel



- 03 = Indicador de error
- 07 = Interruptor selector
- 12 = Indicador de salida analógica
- 24 = Botón más
- 25 = Botón menos
- 63 = Indicador actual de salida analógica

Gráfico de salida



a = Salida Analógica de voltaje
c = Rango de medición

Reflex Sensors

for Measuring Tasks

LASER

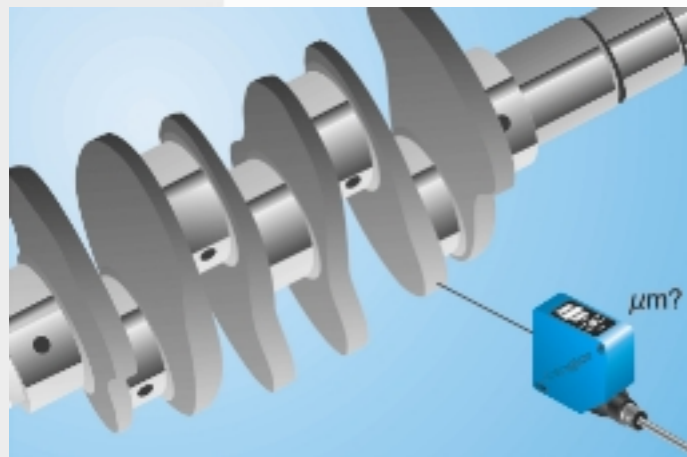
CP24MHT80

Part Number



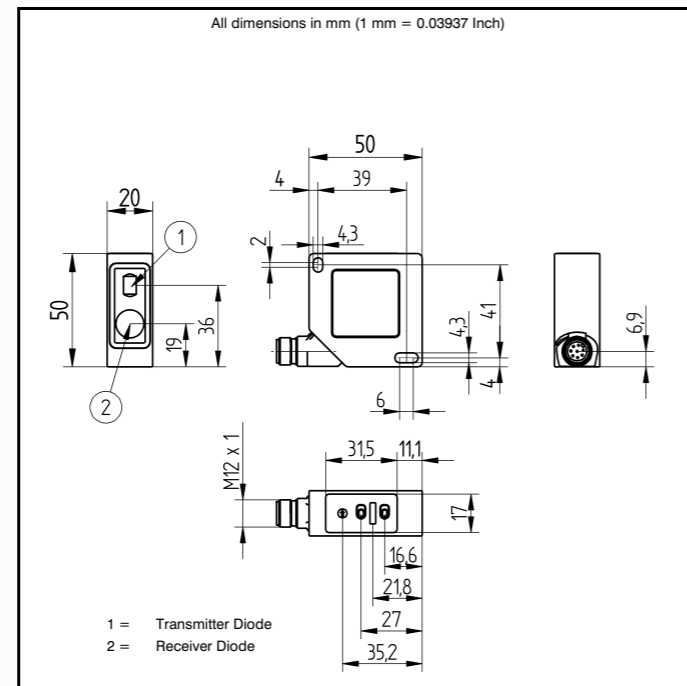
- High resolution 20µm (Resolution-Mode)
- Linearity 0,1% (Resolution-Mode)
- Response Time <660µs (Speed-Mode)
- Zoom function

The sensor uses a high-resolution CMOS line array and DSP technology, virtually eliminating material, colour and brightness related measurement value differences. The Measurement range is calibrated accurate to 10µm. Integrated analogue output can be configured for voltage 0...10 V (10...0 V) or current 4...20 mA (20...4 mA).



Technical Data

Optical Data	
Working Range	40...160 mm
Measuring Range	120 mm
Resolution	< 20 µm
Resolution (Speed-Mode)	< 30 µm
Linearity	0.1 %
Linearity (Speed-Mode)	0.2 %
Light Source	Laser (red)
Wave Length	660 nm
Service Life (T = +25°C)	100000 h
Laser Protection Class (EN 60825-1)	2
max. Ambient Light	10000 Lux
Electrical Data	
Supply Voltage	18...30 V DC
Current Consumption (U _b = 24V)	< 80 mA
Cut-Off Frequency	750 Hz
Cut-Off Frequency (Resolution-Mode)	300 Hz
Response Time	< 660 µs
Response Time (Resolution Mode)	< 1660 µs
Temperature Drift	< 10 µm/°C
Temperature Range	-25...50 °C
Analog Output	0...10 V
Current Load Voltage Output	< 1 mA
Analog Output	4...20 mA
Current Output Load Resistance	< 500 Ohm
Interface	RS-232
Baud Rate	38400 Bd
Mechanical Data	
Adjustment	Teach-In
Housing	Plastic
Protection Mode	IP 67
Connection	M 12x1
Protective Insulation, Rated Voltage	50 V



Specifications are subject to change without notice
38/04

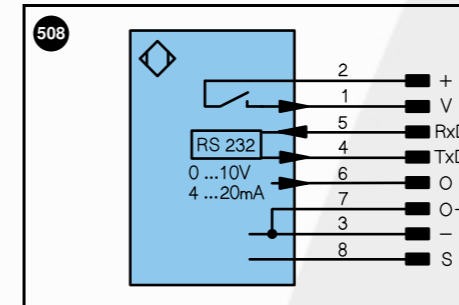


Sta. Virgilia 29 Local.1A 28033 Madrid
Tfno.: 91 764 21 00 Fax.: 91 764 21 32
www.guemisa.com Email.:info@guemisa.com



Part Number	Plug Version
CP24MHT80	
Error Output	●
Analog Output	●
RS-232 Interface	●
Connection Diagram No.	508
Control Panel No.	P 7
Suitable Plug No.	80

Replaces catalog device CP24MHT80

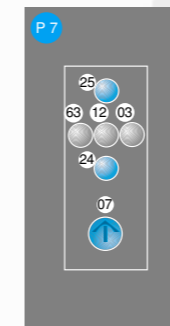


Legend		Wire colors according to DIN IEC 757
+	Power supply "+"	BK black
-	Power supply "0V"	BN brown
~	Power supply (AC Voltage)	RD red
A	Switching output (1,2,3...)/ NO	OG orange
A	Switching output (1,2,3...)/ NC	YE yellow
V	Contamination / Error output (NO)	GN green
V	Contamination / Error output (NC)	BU blue
E	Input (analog or digital)	VT violet
T	Teach input	GY grey
Z	Time delay (activation)	WH white
S	Shielding	PK pink
RxD	RS-232 receive path	GNYE green yellow
TxD	RS-232 send path	
U	Test input	
W	Trigger input	
O	Analog output (1,2,3,...)	
O-	Ground for the analog output	
BZ	Block discharge	
AWV	Valve output	
a	Valve control output "+"	
b	Valve control output "0V"	
SY	Synchronization	
E+	Receiver-Line	
S+	Emitter-Line	
⊕	Grounding	

Accessories

- Mounting Bracket WP
- Serial Interface Adapter S232W2

Ctrl.Panel

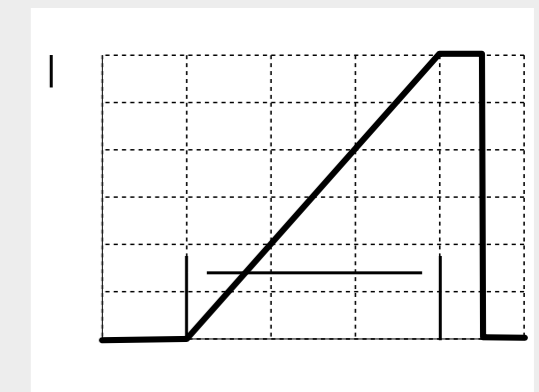


- 03 = Error Indicator
- 07 = Selector Switch
- 12 = Analog Output Indicator
- 24 = Plus Button
- 25 = Minus Button
- 63 = Analog Output Current Indicator

Table 1

Working Distance	40 mm	160 mm
Light Spot Size	0,5 x 1,2 mm	1 x 2,5 mm

Output Graph



a = Analog Voltage Output
c = Measuring Range

Reflex Sensors

for Measuring Tasks

LASER

CP35MHT80

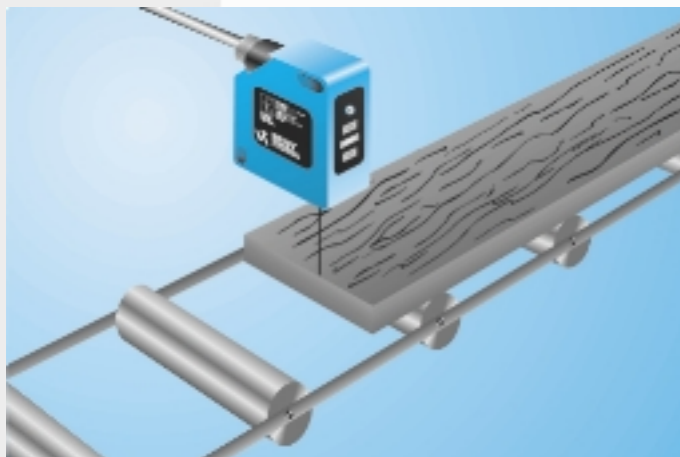
Part Number



- High resolution 50µm (Resolution-Mode)
- Linearity 0,15% (Resolution-Mode)
- Response Time <1250µs (Speed-Mode)
- Zoom function

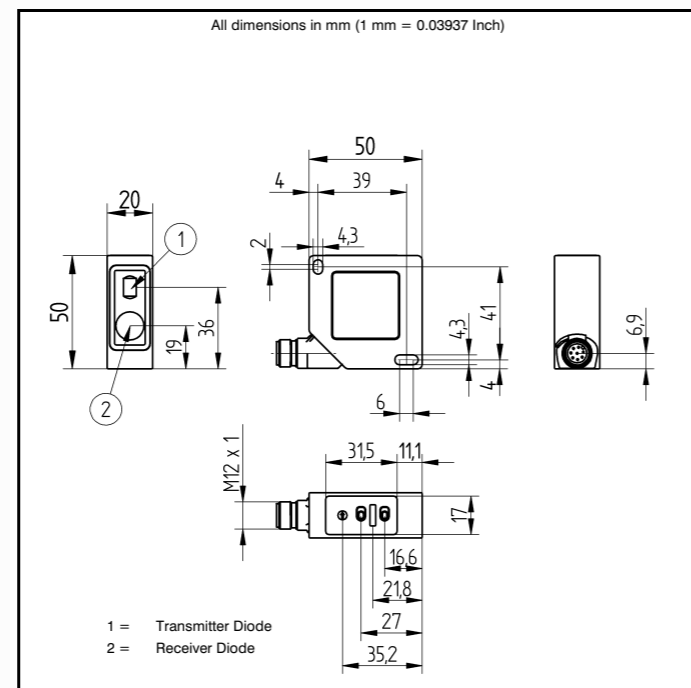
The sensor uses a high-resolution CMOS line array and DSP technology, virtually eliminating material, colour and brightness related measurement value differences. The Measurement range is calibrated accurate to 10µm.

Integrated analogue output can be configured for voltage 0...10 V (10...0 V) or current 4...20 mA (20...4 mA).



Technical Data

Optical Data	
Working Range	50...350 mm
Measuring Range	300 mm
Resolution	< 50 µm
Resolution (Speed-Mode)	< 80 µm
Linearity	0.15 %
Linearity (Speed-Mode)	0.2 %
Light Source	Laser (red)
Wave Length	660 nm
Service Life (T = +25°C)	100000 h
Laser Protection Class (EN 60825-1)	2
max. Ambient Light	10000 Lux
Electrical Data	
Supply Voltage	18...30 V DC
Current Consumption (U _b = 24V)	< 80 mA
Cut-Off Frequency	400 Hz
Cut-Off Frequency (Resolution-Mode)	200 Hz
Response Time	< 1250 µs
Response Time (Resolution Mode)	< 2500 µs
Temperature Drift	< 25 µm/°C
Temperature Range	-25...50 °C
Analog Output	0...10 V
Current Load Voltage Output	< 1 mA
Analog Output	4...20 mA
Current Output Load Resistance	< 500 Ohm
Interface	RS-232
Baud Rate	38400 Bd
Mechanical Data	
Adjustment	Teach-In
Housing	Plastic
Protection Mode	IP 67
Connection	M 12x1
Protective Insulation, Rated Voltage	50 V



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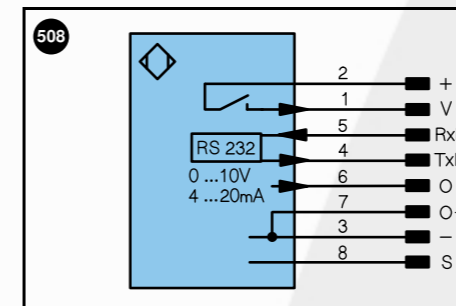


Table 1

Working Distance	50 mm	350 mm
Light Spot Size	0,6 x 1,5 mm	1,5 x 4 mm

Part Number	Plug Version
CP35MHT80	
Error Output	●
Analog Output	●
RS-232 Interface	●
Connection Diagram No.	508
Control Panel No.	P 7
Suitable Plug No.	80

Replaces catalog device CP35MHT80



Legend

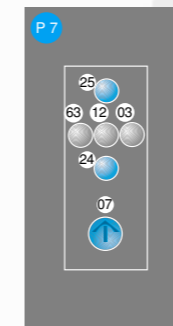
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-	Power supply "0V"	W	Trigger input	BK black
~	Power supply (AC Voltage)	O	Analog output (1,2,3,...)	BN brown
A	Switching output (1,2,3...)/ NO	O-	Ground for the analog output	RD red
A	Switching output (1,2,3...)/ NC	BZ	Block discharge	OG orange
V	Contamination / Error output (NO)	AWV	Valve output	YE yellow
V	Contamination / Error output (NC)	a	Valve control output "+"	GN green
E	Input (analog or digital)	b	Valve control output "0V"	BU blue
T	Teach input	SY	Synchronization	VT violet
Z	Time delay (activation)	E+	Receiver-Line	GY grey
S	Shielding	S+	Emitter-Line	WH white
RxD	RS-232 receive path	⊕	Grounding	PK pink
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Accessories

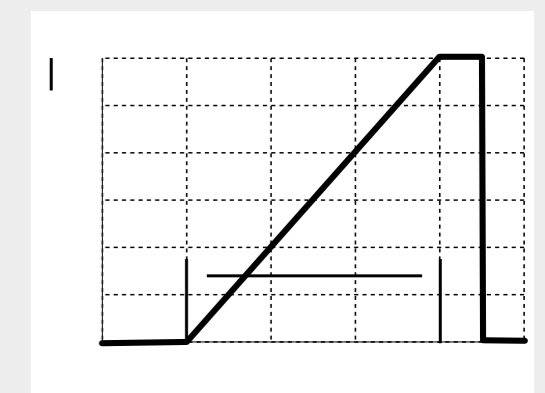
- Mounting Bracket WP
- Serial Interface Adapter S232W2

Ctrl. Panel



- 03 = Error Indicator
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- 63 = Analog Output Current Indicator

Output Graph



a = Analog Voltage Output
 c = Measuring Range